IN THE CLAIMS:

Please cancel claims 4 and 21 without prejudice or disclaimer, and amend claims 1-3, 5-20, and 22-52 as follows:

1. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotor ~~rotors(10-1, 10-2, 80-1, 80-2)~~ with a symmetric rotation [[axes]]axis, having a single sample separation chamber disposed therein ~~chambers (2, 15, 70),~~ for centrifuging a sample[[s]] contained in a sample solution[[s]] placed in the sample separation chamber, and an upper opening[[s]] communicating with ~~(3) passing through to~~ said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor, said rotation axis included inside said separation chamber;

a members ~~of frameworks capable of being coupled to~~ selectively engaged with said upper openings ~~(100),~~; and

rotation-driving means [[(20)]] for rotating said centrifugal rotor[[s]],~~assuming that the direction of said symmetric rotation axis is the first direction, by rotating~~ by means of said members ~~of frameworks~~ around [[a]] said rotation axis in a [[said]] first direction,

wherein ~~provided that two directions intersecting~~ each of a second direction and a third direction intersects with said first direction at a right angle ~~are the second direction and the third direction, respectively~~, ~~the length~~ a dimension of said sample separation chamber in said third direction is larger than ~~the length~~ a dimension of said sample separation chamber in said second direction.

2. (Currently Amended) A centrifugal separator according to claim 1, wherein said members ~~of frameworks are~~ is engaged with said upper opening[[s]] to seal said upper opening[[s]] with said member[[s]].

3. (Currently Amended) A centrifugal separator according to claim 1, wherein said sample solution[[s are]] is injected into said sample separation chamber[[s from]]via said upper opening[[s]].

4. (Cancelled)

5. (Currently Amended) A centrifugal separator according to claim 1, wherein a portion[[s,]]

to which the largest centrifugal acceleration generated by rotation of said centrifugal rotor[[s]] is applied[[,]] has the smallest cross sectional area[[s]].

6. (Currently Amended) A centrifugal separator according to claim 1, wherein a lower part[[s]] of said centrifugal rotor[[s have]] has a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]].

7. (Currently Amended) A centrifugal separator according to claim 6, wherein the centrifugal rotors ~~consist of~~ includes the upper part ~~members of frameworks (110-1)~~ and the lower part ~~members of frameworks (120-1)~~, and the upper ~~members~~ and the lower parts ~~members of frameworks~~ are fitted to each other ~~one another~~.

8. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotor ~~rotors(10-1, 10-2, 80-1, 80-2)~~ with a symmetric rotation [[axes]]axis, having a single sample separation chamber disposed therein ~~chambers (2, 15, 70),~~ for centrifuging a sample[[s]] contained in a sample solution[[s]] placed in the sample separation chamber, and an upper opening[[s]] communicating with ~~(3) passing through to~~ said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor, said rotation axis included inside said separation chamber;

a members ~~of frameworks capable of being coupled to~~ selectively engaged with said upper openings ~~(100),~~; and

rotation-driving means [[(20)]] for rotating said centrifugal rotor[[s]] around an axis Z as said symmetric rotation axis~~, assuming that said symmetric rotation axis is Z~~, by rotating said [[members of frameworks]]member around said axis Z,

wherein ~~provided that~~ a direction normal to said axis Z and along which~~, in which the distance between the ends of~~ said sample chamber [[is]] has the largest dimension thereof ~~in the direction normal to said axis Z is the largest is~~ defines an axis Y, and a direction intersecting with said axis Z and axis Y axis at right angles defines an [[is]] axis X, ~~with respect to~~ a cross sectional [[areas]]area of said sample separation chamber ~~in a plane parallel to~~ on a ZX plane is bigger than a parallel [[, said]] cross sectional area of said sample separation chamber [[far]] away from said ZX plane ~~axis Z is smaller than said cross sectional area at a distance near axis Z~~.

9. (Currently Amended) A centrifugal separator according to claim 8, wherein said members ~~of frameworks are~~ is engaged with said upper opening[[s]] to seal said upper opening[[s]] with said member[[s]].

10. (Currently Amended) A centrifugal separator according to claim 8, wherein said sample solution[[s are]] is injected into said sample separation chamber[[s from]]via said upper opening[[s]].

11. (Currently Amended) A centrifugal separator according to claim 8, wherein said sample separation chamber[[s have]]has a concave portion~~s with two symmetric planes intersecting with one another, including~~ that includes said axis Z.

12. (Currently Amended) A centrifugal separator according to claim 8, wherein a portion[[s,]] to which the largest centrifugal acceleration generated by rotation of said centrifugal rotor[[s]] is applied[[,]] has the smallest cross sectional area[[s]].

13. (Currently Amended) A centrifugal separator according to claim 8, wherein a lower part[[s]] of said centrifugal rotor[[s have]] has a lower opening~~s (16) passing through to~~ communicating with said sample separation chamber[[s]].

14. (Currently Amended) A centrifugal separator according to claim 13, wherein the centrifugal rotor~~s consist of the~~ includes the upper part ~~members of frameworks (110-1)~~ and the lower part ~~members of frameworks (110-1, 110-2, 110-3)~~, and the upper ~~members~~ and the lower parts ~~members of frameworks~~ are fitted to each other ~~one another~~.

15. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotor~~s (10-1, 10-2)~~, with a symmetric rotation [[axes]] axis, having a single sample separation chamber~~s (15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper opening~~s (3) passing through to~~ communicating with said sample separation chamber~~s in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower opening~~s passing through to~~ communicating with said

sample separation chamber[[s]], said symmetric rotation axis of said rotor included inside said separation chamber;

rotation driving means [[(20)]] for rotating the centrifugal rotors~~, assuming that said symmetric rotation axes are rotation axes,~~ by rotating said ~~members of frameworks~~ upper part around said rotation [[axes,]]axis; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] the upper opening[[s]].

16. (Currently Amended) A centrifugal separator according to claim 15, wherein said centrifugal rotors ~~consist of~~ includes said upper part ~~members of frameworks (110-2)~~ and a lower part ~~members of frameworks and said upper members and said lower members are~~ which is fitted to said upper part ~~one another~~.

17. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotors ~~(10-1, 10-2)~~, with a symmetric rotation [[axes]] axis, having a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3) passing through to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor included inside said separation chamber,

rotation driving means ~~(20), assuming that said symmetric rotation axis is axis Z,~~ for rotating the centrifugal rotor[[s]] around [[said]] an axis Z, and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] the upper opening[[s]],

wherein ~~provided that~~ a direction normal to said axis Z and along which ~~, in which the distance between the ends of~~ said sample chamber [[is]] has the largest dimension thereof defines an axis Y ~~in the direction normal to said axis Z~~, and a [[the]] direction intersecting with said axis Z and axis Y at right angles defines an axis X, [[said]]and a longitudinal direction ~~corresponds to~~of the solution vessel coincides with said axis Y.

18. (Currently Amended) A centrifugal separator according to claim 17, wherein said centrifugal rotors ~~consist of~~ includes said upper part ~~members of frameworks (110-2)~~ and a lower part ~~members of frameworks and said upper members and said lower members are~~ which is fitted to said upper part ~~one another~~.

19. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotors ~~(10-1, 10-2)~~, with a symmetric rotation [[axes]] axis, having a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3) passing through to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor included inside said separation chamber;

a members ~~of frameworks capable of being coupled to~~ selectively engaged with said upper openings ~~(100),~~;

rotation-driving means [[(20)]] for rotating said centrifugal rotor[[s]],~~assuming that the direction of said symmetric rotation axis is the first direction, by rotating~~ by means of said members ~~of frameworks~~ around [[a]] said rotation axis in a [[said]] first direction[[,]]; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] said upper opening, both of the upper and lower openings communicating with said sample separation chamber,

wherein ~~provided that two directions intersecting~~ each of a second direction and a third direction intersects with said first direction at a right angle ~~are the second direction and the third direction, respectively~~, ~~the length~~ a dimension of said sample separation chamber in said third direction is larger than ~~the length~~ a dimension of said sample separation chamber in said second direction.

20. (Currently Amended) A centrifugal separator according to claim 19, wherein said members

~~of frameworks~~ and said upper opening[[s]] are engaged with each other ~~one another~~ to seal said upper openings ~~by said members of frameworks~~ with said member.

21. (Cancelled)

22. (Currently Amended) A centrifugal separator according to claim 19, wherein

~~the portions,~~a portion to which the largest centrifugal acceleration generated by rotation of said centrifugal rotor[[s]] is applied[[,]] has the smallest cross sectional area[[s]].

23. (Currently Amended) A centrifugal separator according to claim 19, [[wherein]]further comprising means ~~(17, 18, 130, 131)~~ for rotatably ~~supports~~ supporting said centrifugal rotors ~~from lower side~~ on a supporting stand.

24. (Currently Amended) A centrifugal separator according to claim 19, wherein

said centrifugal rotors ~~consist of~~ includes the upper part ~~members of frameworks (110-2)~~ and [[the]] a lower part ~~members of frameworks (120-2),~~ which is are fitted to the upper part~~one another~~.

25. (Currently Amended) A centrifugal separator comprising:

a centrifugal rotor ~~rotors(10-1, 10-2, 80-1, 80-2)~~ with a symmetric rotation [[axes]]axis, having a single sample separation chamber disposed therein ~~chambers (2, 15, 70),~~ for centrifuging a sample[[s]] contained in a sample solution[[s]] placed in the sample separation chamber, and an upper opening[[s]] communicating with ~~(3) passing through to~~ said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor, said rotation axis included inside said separation chamber;

a members ~~of frameworks capable of being coupled to~~ selectively engaged with said upper openings ~~(100),~~;

rotation-driving means [[(20)]] for rotating said centrifugal rotor[[s]] around an axis Z as said symmetric rotation axis~~, assuming that said symmetric rotation axis is Z~~, by rotating said [[members of frameworks]]member around said axis Z[[,]]; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into

said sample separation chamber via [[from]] said upper opening, both of the upper and lower openings communicating with said sample separation chamber,

wherein ~~provided that~~ a direction normal to said axis Z and along which~~, in which the distance between the ends of~~ said sample chamber [[is]] has the largest dimension thereof ~~in the direction normal to said axis Z is the largest is~~ defines an axis Y, and a direction intersecting with said axis Z and axis Y axis at right angles defines an [[is]] axis X, ~~with respect to~~ a cross sectional [[areas]]area of said sample separation chamber ~~in a plane parallel to~~ on a ZX plane is bigger than a parallel [[, said]] cross sectional area of said sample separation chamber [[far]] away from said ZX plane ~~axis Z is smaller than said cross sectional area at a distance near axis Z~~.

26. (Currently Amended) A centrifugal separator according to claim 25, wherein said members ~~of frameworks~~ and said upper opening[[s]] are engaged with each other ~~one another~~ to seal said upper openings ~~by said members of frameworks~~ with said member.

27. (Currently Amended) A centrifugal separator according to claim 25, wherein said sample separation chambers ~~have the~~ has a concave portion[[s]] fixed therein ~~with two symmetric planes and including the rotation symmetric axis therein~~.

28. (Currently Amended) A centrifugal separator according to claim 25, wherein

~~the portions,~~ a portion to which the largest centrifugal acceleration generated by rotation of said centrifugal rotor[[s]] is applied[[,]] has the smallest cross sectional area[[s]].

29. (Currently Amended) A centrifugal separator according to claim 25, further comprising for rotatably ~~supports~~ supporting said centrifugal rotors ~~from lower side~~ on a supporting stand.

30. (Currently Amended) A centrifugal separator according to claim 25, wherein

said centrifugal rotors ~~consist of~~ includes the upper part ~~members of frameworks (110-2)~~ and [[the]] a lower part ~~members of frameworks (120-2),~~ which is are fitted to the upper part ~~one another~~.

31. (Currently Amended) A sample preparation device comprising:

a plurality of centrifugal rotors ~~(210, 501)~~ for centrifuging a sample contained in a sample solution, [[with]]each having a respective symmetric rotation [[axes]]axis, a single sample separation chambers~~(2, 15, 70) in them for centrifuging samples contained in sample solutions~~ disposed therein, and an upper openings ~~(3) communicated~~ communicating with said sample separation chamber[[s]], said respective rotation symmetric axis being included inside said sample separation chamber;

~~multiple~~a plurality of rotation driving means ~~(211, 502) assuming that said symmetric rotation axes are rotation axes~~each for rotating a respective one of said centrifugal rotors around said respective symmetric rotation axis;[[,]] and

[[a]]control means for independently driving said rotation driving means of said respective rotor~~, independently~~.

32. (Currently Amended) A sample preparation device according to claim 31, wherein said control means control both injection of said sample solution[[s]] into said sample separation chamber[[s]] of each of said centrifugal rotors, and recovery of said sample[[s]] from each of said sample separation chamber[[s]] of each of said centrifugal rotors ~~for each of said centrifugal rotors~~.

33. (Currently Amended) A centrifugal preparation device according to claim 31, wherein each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a loop trajectory [[trajectories]].

34. (Currently Amended) A sample preparation device according to claim 31, wherein each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a loop trajectory ~~trajectories and at given intervals, where said transport devices move~~, and each of said centrifugal rotors [[are]]is rotated for [[centrifuging]]a given time interval to carry out centrifugal separation of said sample solution[[s]] contained therein.

35. (Currently Amended) A sample preparation device according to claim 31, each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a circular trajectory [[trajectories]].

36. (Currently Amended) A sample preparation device according to claim 31, wherein each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a circular trajectory ~~trajectories and at given intervals, where said transport devices move~~, and each of said centrifugal rotors [[are]]is rotated for [[centrifuging]]a given time interval to carry out centrifugal separation of said sample solution[[s]] contained therein.

37. (Currently Amended) A sample preparation device comprising:

a plurality of centrifugal rotors ~~(210, 501)~~ for centrifuging a sample contained in a sample solution, [[with]]each having a respective symmetric rotation [[axes]]axis, a single sample separation chambers~~(15, 70) in them for centrifuging samples contained in sample solutions~~ disposed therein, and an upper openings ~~(3) communicated~~ communicating with said sample separation chamber[[s]] at an upper part of each rotor, ~~in the upper parts~~ and [[the]] a lower openings ~~passing through to (16)~~ communicating with said sample separation chamber[[s,]] at a lower part of each rotor, said respective rotation symmetric axis being included inside said sample separation chamber;

a plurality of solution vessels ~~(12, 150)~~ each being fixed said sample separation chamber and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via[[from]] said upper opening[[s,]];

~~multiple~~a plurality of rotation driving means ~~(211, 502) assuming that said symmetric rotation axes are rotation axes~~each for rotating a respective one of said centrifugal rotors around said respective symmetric rotation axis;[[,]] and

[[a]]control means for driving said [[multiple]]rotation driving means, whereby said rotors are driven independently from each other.

38. (Currently Amended) A sample preparation device according to claim 37, wherein said control means control both injection of said sample solution[[s]] into said sample separation chamber[[s]] of each of said centrifugal rotors, and recovery of said sample[[s]] from each of said sample separation chamber[[s]] of each of said centrifugal rotors ~~for each of said centrifugal rotors~~.

39. (Currently Amended) A centrifugal preparation device according to claim 37, wherein each

of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a loop trajectory [[trajectories]].

40. (Currently Amended) A sample preparation device according to claim 37, wherein each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a loop trajectory ~~trajectories and at given intervals, where said transport devices move~~, and each of said centrifugal rotors [[are]]is rotated for [[centrifuging]]a given time interval to carry out centrifugal separation of said sample solution[[s]] contained therein.

41. (Currently Amended) A sample preparation device according to claim 37, each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a circular trajectory [[trajectories]].

42. (Currently Amended) A sample preparation device according to claim 37, wherein each of said centrifugal rotors [[are]]is disposed [[at]]on a transport devices ~~(40, 201)~~ moving [[on]]along a circular trajectory ~~trajectories and at given intervals, where said transport devices move~~, and each of said centrifugal rotors [[are]]is rotated for [[centrifuging]]a given time interval to carry out centrifugal separation of said sample solution[[s]] contained therein.

43. (Currently Amended) A ~~sample preparation~~ method for preparing at least one sample with a plurality of ~~multiple~~ centrifugal rotors ~~(210, 501) with symmetric rotation axes for the rotations,~~each having a single sample separation chambers ~~(2, 15, 70) in them~~ therein for centrifuging a sample[[s]] contained in [[the]] a sample solution[[s]], an upper openings ~~passing through to~~ communicating with said sample separation chamber[[s]], each of said rotors having a respective symmetric rotation axis included inside said sample separation chamber, said method comprising: [[;]]

~~(1) a process for~~ injecting said sample solution[[s]] into said sample separation chamber[[s]] of each of said centrifugal rotors[[,]];

~~(2) a process for~~ moving each of said centrifugal rotors [[on]]along a loop-shape trajectory[[,]];

~~(3) a process for~~ centrifuging said sample solutions~~, assuming that said symmetric~~

~~rotation axes are the rotation axes,~~ by rotating said centrifugal rotors independently around ~~each of~~ said respective symmetric rotation axis; [[axes,]] and

~~(4) a process for~~ recovering said sample[[s]] obtained by centrifugation from each of said sample separation chambers of said centrifugal rotors.

44. (Currently Amended) A ~~sample preparation~~ method for preparing at least one sample with a plurality of ~~multiple~~ centrifugal rotors ~~(210, 501) with symmetric rotation axes for the rotations,~~each having a single sample separation chambers ~~(2, 15, 70) in them~~ therein for centrifuging a sample[[s]] contained in [[the]] a sample solution[[s]], an upper openings ~~passing through to~~ communicating with said sample separation chamber[[s]], each of said rotors having a respective symmetric rotation axis included inside said sample separation chamber, said method comprising: [[;]]

~~(1) a process for~~ injecting said sample solution[[s]] into said sample separation chamber[[s]] of each of said centrifugal rotors[[,]];

~~(2) a process for~~ moving each of said centrifugal rotors [[on]]along a loop-shape trajectory[[,]];

~~(3) a process for~~ centrifuging said sample solution[[s]] to produce [[said]] a precipitate[[s]] of said sample ~~assuming that said symmetric rotation axes are the rotation axes,~~by independently rotating each of said centrifugal rotors around said respective symmetric rotation axis; ~~axes, independently~~

~~(4) a process for~~ discharging [[the]]a supernatant liquid obtained by centrifugation [[from]]of said sample solution in said sample separation chamber of each of said centrifugal rotors;[[,]]

~~(5) a process for~~ cleaning away said ~~residual~~ precipitate[[s]] deposited in said sample separation chamber of each of said centrifugal rotors;[[,]]

~~(6) a process for~~ injecting a solvent[[s]] into at least one of said sample separation chambers of said centrifugal rotors~~, rotating independently said centrifugal rotors, and~~ thereby dissolving said precipitate[[s into]]in said solvent~~;, dissolving said precipitate in said solvent,~~ and

~~(7) a process for~~ recovering said ~~the solvent containing said dissolved precipitates~~ precipitate dissolved in said solvent from each of said sample separation chambers of said centrifugal rotors into [[the]] at least one recovery vessel[[s]].

45. (Currently Amended) A ~~sample preparation~~ method for preparing at least one sample with a plurality of ~~multiple~~ centrifugal rotors ~~(210, 501) with symmetric rotation axes for the rotations,~~each having a single sample separation chambers ~~(2, 15, 70) in them~~ therein for centrifuging a sample[[s]] contained in [[the]] a sample solution[[s]], an upper openings ~~passing through to~~ communicating with said sample separation chamber[[s]] at an upper part of a respective centrifugal rotor, and [[the]]a lower openings ~~passing through to~~ communicating with said sample separation chamber[[s]] at a lower part of a respective centrifugal rotor, each of said rotors having a respective symmetric rotation axis included inside said sample separation chamber, said method comprising:[[;]]

~~(1) a process for~~ injecting said sample solution[[s]] into at least one of solution holding vessels ~~(12, 150)~~ fixed in said sample separation chambers ~~of said centrifugal rotors,~~each having a concave portions ~~(13, 160)~~ in said sample separation chambers ~~of said centrifugal rotors,~~;

~~(2) a process for~~ moving each of said centrifugal rotors [[on]]along [[the]]a loop-shape trajectory;[[,]]

~~(3) a process for~~ centrifuging said sample solutions~~, assuming that said symmetric rotation axes,~~ by rotating each of said centrifugal rotors independently [[,]] around said respective rotation symmetric [[axes,]]axis; and

~~(4) a process for~~ recovering said sample[[s]] obtained by centrifugation from each of said sample separation chambers of said centrifugal rotors.

46. (Currently Amended) A ~~sample preparation~~ method for preparing at least one sample with a plurality of ~~multiple~~ centrifugal rotors ~~(210, 501) with symmetric rotation axes for the rotations,~~each having a single sample separation chambers ~~(2, 15, 70) in them~~ therein for centrifuging a sample[[s]] contained in [[the]] a sample solution[[s]], an upper openings ~~passing through to~~ communicating with said sample separation chamber[[s]] at a lower part of a respective centrifugal rotor, each of said rotors having a respective symmetric rotation axis included inside said sample separation chamber, said method comprising:[[;]]

~~(1) a process for~~ injecting said sample solution[[s]] into at least one of solution holding vessels ~~(12, 150)~~ fixed in said sample separation chambers ~~of said centrifugal rotors,~~each having a concave portions ~~(13, 160)~~ in said sample separation chambers ~~of said~~

~~centrifugal rotors,~~;

~~(2) a process for~~ moving each of said centrifugal rotors [[on]]along a loop-shape trajectory[[,]];

~~(3) a process for~~ centrifuging said sample solution[[s]] to produce [[said]] a precipitate[[s]] of said sample ~~assuming that said symmetric rotation axes are the rotation axes,~~by independently rotating each of said centrifugal rotors around said respective symmetric rotation axis; ~~axes, independently~~

~~(4) a process for~~ discharging [[the]]a supernatant liquid obtained by centrifugation [[from]]of said sample solution in said sample separation chamber of each of said centrifugal rotors;[[,]]

~~(5) a process for~~ cleaning away said ~~residual~~ precipitate[[s]] deposited in said sample separation chamber of each of said centrifugal rotors;[[,]]

~~(6) a process for~~ injecting a solvent[[s]] into at least one of said sample separation chambers of said centrifugal rotors~~, rotating independently said centrifugal rotors, and~~ thereby dissolving said precipitate[[s into]]in said solvent;~~, dissolving said precipitate in said solvent,~~ and

~~(7) a process for~~ recovering said ~~the solvent containing said dissolved precipitates~~ precipitate dissolved in said solvent from each of said sample separation chambers of said centrifugal rotors into [[the]] at least one recovery vessel[[s]].

47. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal rotor comprising:

a single sample separation chambers~~ in them(2, 15, 70)~~ disposed therein for centrifuging [[the]] a sample[[s]] contained in[[the]] a sample solution[[s,]] and having an [[the]] upper openings~~ passing through to(3)~~ communicated with said sample separation chamber[[s]], and a symmetric rotation axis included inside said sample separation chamber,

wherein ~~assuming that the~~ a direction of said symmetric rotation axis ~~is the~~ defines a first direction, and ~~two directions intersecting~~ each of a second direction and a third direction intersects with said first direction at a right angle ~~are the second direction and the third direction, respectively~~, ~~the length~~ a dimension of said sample separation chamber in said third direction is larger than ~~the length~~ a dimension of said sample separation chamber in said second direction.

48. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal rotor comprising:

a single sample separation chambers ~~in them(2, 15, 70)~~ disposed therein for centrifuging [[the]] a sample[[s]] contained in[[the]] a sample solution[[s,]] and having an [[the]] upper openings ~~passing through to(3)~~ communicated with said sample separation chamber[[s]], and a symmetric rotation axis included inside said sample separation chamber,

wherein ~~provided that~~ a direction normal to said axis Z and along which~~, in which the distance between the ends of~~ said sample chamber [[is]] has the largest dimension thereof ~~in the direction normal to said axis Z is the largest is~~ defines an axis Y, and a direction intersecting with said axis Z and axis Y axis at right angles defines an [[is]] axis X, ~~with respect to~~ a cross sectional [[areas]]area of said sample separation chamber ~~in a plane parallel to~~ on a ZX plane is bigger than a parallel [[, said]] cross sectional area of said sample separation chamber [[far]] away from said ZX plane ~~axis Z is smaller than said cross sectional area at a distance near axis Z~~.

49. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal rotor comprising:

a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3) passing through to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor included inside said separation chamber; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] said upper opening[[s]].

50. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal rotor comprising:

a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3)~~

~~passing through~~ ~~to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor is defined as an Z axis and included inside said separation chamber; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] said upper opening[[s]],

wherein ~~assuming that the~~ a direction normal to said axis Z and along which~~, in which the distance between the ends of~~ said sample chamber [[is]] has the largest dimension thereof ~~in the direction normal to said axis Z is the largest is~~ defines an axis Y, and [[the]]a direction intersecting with said axis Z and said axis Y at right angles defines an [[is]] axis X, ~~respectively,~~ the longitudinal direction of said sample separation vessel ~~corresponds to~~coincides with axis Y.

51. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal rotor comprising:

a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3) passing through~~ ~~to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor is defined as an first direction and included inside said separation chamber; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] said upper opening[[s]],

wherein ~~assuming that two directions that~~ each of a second direction and a third direction intersects with the first direction at a right angle ~~are the second direction(X) and the third direction (Y), respectively~~, a ~~length~~ dimension in the third direction of the sample separation chamber is larger than [[that]] a dimension of said sample separation chamber in the second direction.

52. (Currently Amended) ~~Centrifugal rotors with symmetric rotation axes having~~A centrifugal

rotor comprising:

a single sample separation [[chambers in them]]chamber, disposed therein, for a single sample separation chambers ~~(15, 70) in them,~~ disposed therein for centrifuging a sample[[s]] contained in a sample solution[[s]], [[the]]an upper openings ~~(3) passing through to~~ communicating with said sample separation chambers ~~in the~~at an upper part[[s]] of the centrifugal rotor and [[the]]a lower openings ~~(16) passing through to~~ communicating with said sample separation chamber[[s]], said symmetric rotation axis of said rotor is defined as an Z axis and included inside said separation chamber; and

a solution holding vessels ~~(12, 150),~~ fixed in said sample separation chamber[[s,]] and having a concave portions ~~(13, 160)~~ for holding said sample solution[[s]] injected into said sample separation chamber via [[from]] said upper opening[[s]],

wherein both of the upper and lower openings communicate with the sample separation chamber,

wherein ~~provided that~~ a direction normal to said axis Z and along which ~~a distance between the ends of~~ said sample separation chamber has ~~in a direction normal to axis Z is~~ the largest dimension thereof defines an [[is]] axis Y, and a direction intersecting axis Z and axis Y at right angles defines an [[is]] axis X, ~~with respect to~~ a cross sectional [[areas]]area of said sample separation chamber ~~in a plane parallel to~~ on a ZX plane is bigger than a parallel [[, said]] cross sectional area of said sample separation chamber [[far]] away from said ZX plane ~~axis Z is smaller than said cross sectional area at a distance near axis Z~~.